

**Manufacturer:**

Covestro

Product Name:Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating,
UV Cure (1 kg)**Manufacturer Part Number:**

COV-DF-0009-1KG

[Learn More](#)

▶ [Click here for more details on the Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure \(1 kg\)](#)

DeSolite®
Optical Fiber Coatings



Product Data

DeSolite® DF-0009

Product Description

DeSolite® DF-0009 is an optical fiber single coat designed for higher temperature fiber applications.

Performance Characteristics

Liquid Coating	Typical Properties
Viscosity, 25°C, mPa•s	6,700
Density, 23°C, kg•m ⁻³	1,120
Liquid Refractive Index, 23°C	1.520

Cured Coating* (Tested at <1% R.H.)	Typical Properties
Glass Transition Range (DMA**), °C at E' _{1000 MPa}	2
Glass Transition Range (DMA**), °C at E' _{100 MPa}	48
Cured Refractive Index	1.540
TGA weight loss 120 hrs @ 200°C, %	9.9

Cured Coating* (Tested at 23°C, 50% R.H.)	Typical Properties
Segment modulus, 2.5% strain, MPa	700
Elongation, %	15
Tensile strength, MPa	23
Degree of Cure (UV dose at 95% of Ultimate Secant Modulus, J•cm ⁻²)	0.9

*75 µm films cured in nitrogen at 1.0 J•cm⁻² using one D lamp, unless stated otherwise.
UV dose determined with an IL-390 radiometer manufactured by International Light, Inc.

**Dynamic Mechanical Analysis (see DMA graph)

Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

*Product specifications and data are
subject to change without notice.*

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**Test Methods**

Test methods available upon request.

Shelf Life

DeSolite® DF-0009 has a shelf life of 2 years from the date of manufacture, provided recommended storage conditions are properly maintained.

Filtration

DeSolite® Optical Fiber Coatings are manufactured using fine filtration techniques designed to minimize particulate matter and to ensure high strength and uniform product performance.

Safety Information

This product is formulated with multifunctional acrylates which may cause skin and eye irritation and/or skin sensitization. Safety data sheets for each product are available from your Covestro sales representative. All safety and handling recommendations should be followed carefully.

Storage Conditions

DeSolite® materials should be stored in their original containers at temperatures between 15° and 30° C. The bottles that are used for these are UV opaque and allow for air to diffuse through the plastic which prevents premature gelation.

Conversions

$$\begin{aligned} N &= g \cdot f \times 9.807 \times 10^{-3} & kg \cdot mm^{-2} &= MPa \times 0.102 \\ psi &= MPa \times 145 & mPa \cdot s &= cps \end{aligned}$$

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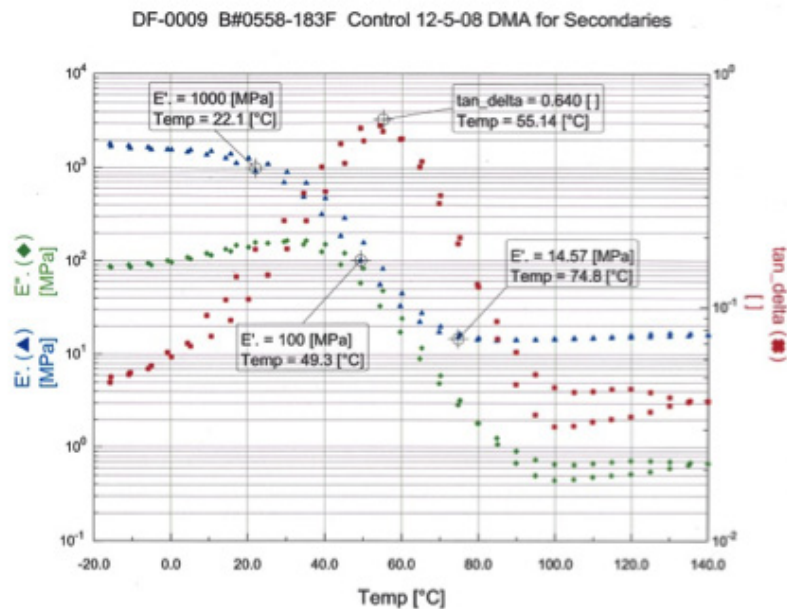
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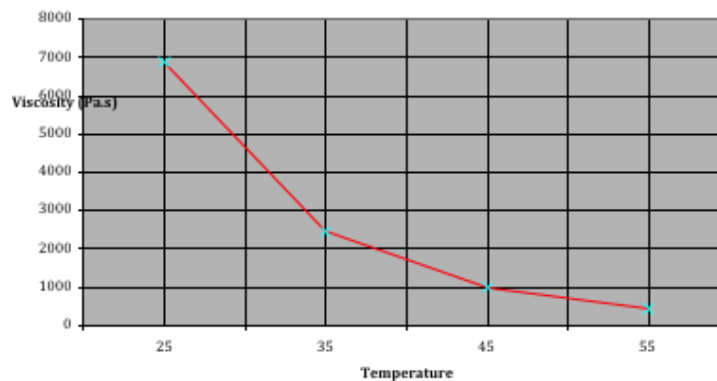
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Dynamic Mechanical Analysis (DMA)



Temperature/Viscosity Curve of DF-0009



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